

ACKNOWLEDGMENTS

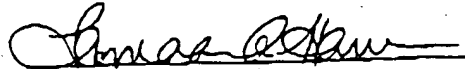
STATE OF NEW JERSEY)

: ss:

COUNTY OF SOMERSET)

I CERTIFY that on January 30, 2001, Daniel P. McCurdy personally came before me and this person acknowledged under oath, to my satisfaction that:

- a.) this person signed, sealed and delivered the attached Patent Assignment as President - Intellectual Property Business of Lucent Technologies Inc.; and
- b.) this Patent Assignment was signed and made by Lucent Technologies Inc. as its voluntary act and deed by virtue of authority from its Board of Directors.



Name TAMORA ANNE HANNA
 Notary Public Notary Public of New Jersey
 My Commission Expires Registered in Hunterdon County
 [Notarial Seal] My Commission Expires March 25, 2002

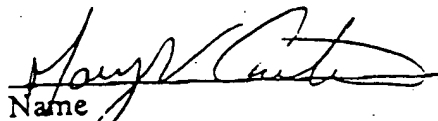
STATE OF FLORIDA)

: ss:

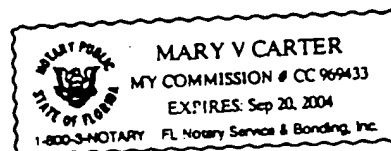
COUNTY OF ORANGE)

I CERTIFY that on January 31, 2001, Fred M. Romano personally came before me and this person acknowledged under oath, to my satisfaction that:

- a.) this person signed, sealed and delivered the attached Patent Assignment as Vice President of Agere Systems Guardian Corp. ; and
- b.) this Patent Assignment was signed and made by Agere Systems Guardian Corp. as its voluntary act and deed by virtue of authority from its Board of Directors.



Name
 Notary Public
 My Commission Expires:
 [Notarial Seal]





FEB 14 2000

UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

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FEBRUARY 03, 2000

PTAS

HITT CHWANG & GAINES, P.C.
CHARLES W. GAINES
275 WEST CAMPBELL ROAD, SUITE 225
RICHARDSON, TEXAS 75080



101188852A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CREVASSE, ARNETTE M.

DOC DATE: 10/18/1999

ASSIGNOR:

EASTER, WILLIAM G.

DOC DATE: 10/18/1999

ASSIGNOR:

MAZE, JOHN A.

DOC DATE: 10/18/1999

ASSIGNOR:

MERCHANT, SAILESH M.

DOC DATE: 10/18/1999

ASSIGNOR:

MICELI, FRANK

DOC DATE: 10/18/1999

ASSIGNEE:

LUCENT TECHNOLOGIES, INC.
600 MOUNTAIN AVENUE
MURRAY HILL, NEW JERSEY 07974-0636

FILING DATE: 10/26/1999
ISSUE DATE:

KIMBERLY WHITE, EXAMINER
ASSIGNMENT DIVISION
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